

Deep Brain Stimulation and memory restoration

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Propositions belonging to the dissertation

Deep Brain Stimulation and memory restoration

Huajie Liu

1 The safe and effective neuromodulation techniques with high selectivity and specificity may provide ideas for improving the efficacy and reducing side effects in the transformation model. (this thesis)

2 These preclinical studies on memory recovery may bring a new direction for DBS in the treatment of dementia patients, and have a good prospect for patients with cognitive impairment diseases. (this thesis)

3 Animal models mimic human pathologies to verify the safety and effects of DBS as well as help to discern the anatomy and physiology of brain structures and the pathophysiology of disorders where DBS is to be implemented. (this thesis)

4 Deep brain stimulation of the nucleus basalis of Meynert with optimal stimulation parameters offers the potential to improve memory function in conditions characterized by memory impairment. (this thesis)

5 The important thing in life is to have a great aim, and the determination to attain it. (Johann Wolfgang von Goethe)

6 If I have seen farther than others, it is because I stood on the shoulders of giants. (Isaac Newton)

7 Do not, for one repulse, give up the purpose that you resolved to effect. (William Shakespeare)